Notice of Allowability	Application No.	Applicant(s)	
	09/597,371	KELLER ET AL.	
	Examiner	Art Unit	
	Bharat N. Barot	2155	
	Bharal N. Barol		
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED ir or other appropriate commu IGHTS. This application is s	n this application. If not include unication will be mailed in due	ed course. THIS
1. This communication is responsive to <u>RCE filed on 01/21/2</u>	<u>005</u> .		
2. A The allowed claim(s) is/are <u>1-12, 14-16, 18-22, and 24-28</u>	re-numbered as 1-25.		
3. \boxtimes The drawings filed on $\underline{10/2/2003 \& 2/2/2004}$ are accepted	by the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have		or (f).	
_ , , ,		N.a.	
2. Certified copies of the priority documents have	·		
3. Copies of the certified copies of the priority do	cuments have been received	d in this national stage applica	tion from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the re	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		w (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	-		
(b) ☐ including changes required by the attached Examiner		r in the Office action of	
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATE	ERIAL must be submitted.	Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 ☐ Notice of In	formal Patent Application (PT	O-152\
Notice of Preferences Cited (F10-032) Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),	- 102/
2. Notice of Draitperson's Faterit Drawing Neview (F10-54-6)	Paper No./	/Mail Datè	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	08), 7. ⊠ Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allo	owance
of Biological Material	9. 🗌 Other		
		21. 1	Berst.
·		BHARAT BAROT PRIMARY EXAMIN (571)272-3979	

Application/Control Number: 09/597,371 Page 2

Art Unit: 2155

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Jonathan A. Platt (Reg. No. 41,255) on April 27, 2004.
- 3. The application has been amended as follows:

In the Claims: Claims 1, 4-5, 8, 11-12, 21, 24, and 26-28 have been amended.

Claim 1 (Currently Amended) A method of communicating within a network interface apparatus, the method comprising:

creating special internal communication frames for internal communication in a first part of the <u>network interface</u> apparatus, wherein the special frames each include:

an identifier that distinguishes the special frames from other frames passing through the <u>network interface</u> apparatus; and physical layer device control information;

sending the special frames from the first part to a second part of the network
interface apparatus through at least a media access controller of the network interface
apparatus, wherein the second part includes a physical layer device;

Art Unit: 2155

identifying the special frames from among incoming frames incoming to the second part from the first part, wherein the identifying includes examining the incoming frames for the presence of the identifier; and

extracting the physical layer device control information from the special frames at the second part.

Claim 4 (Currently Amended) The method of claim 1, further comprising controlling the physical layer device using the <u>physical layer device</u> control information.

Claim 5 (Currently Amended) The method of claim 1, wherein the extracting the physical layer device control information includes changing the contents of memory registers of the second part.

Claim 8 (Currently Amended) The method of claim 1, further comprising creating additional special internal communication frames for internal communication in the second part the additional special frames including an additional identifier, and passing the additional special frames to the first part.

Claim 11 (Currently Amended) A network interface apparatus comprising:

- a network medium interface which includes a physical layer device;
- a media access controller operatively coupled to the network medium interface;

and

Application/Control Number: 09/597,371

Art Unit: 2155

a device driver arrangement operatively coupled to the media access controller, the device driver arrangement including a device driver operatively configured to communicate with the media access controller, and an intermediate driver operatively configured to communicate control information to the network medium interface;

wherein the intermediate driver and the network medium interface are operatively configured to communicate via special internal communication frames created for internal communication which include the control information.

Claim 12 (Currently Amended) The apparatus of claim 11, wherein the network medium interface includes a second media access controller <u>operatively coupled to the</u> and a physical layer device.

Claim 21 (Currently Amended) A network interface apparatus comprising:

- a network medium interface which includes a physical layer device;
- a media access controller operatively coupled to the network medium interface;
- a device driver operatively configured to communicate with the media access

controller; and

means for controlling the physical layer device by passing control information through the media access controller,

wherein the means for controlling includes means for creating and sending special internal communication frames for internal communication which include the control information.

Application/Control Number: 09/597,371 Page 5

Art Unit: 2155

Claim 24 (Currently Amended) The apparatus of claim 21, wherein the means for crating the special internal communication frames for internal communication includes means for creating frames that are treated by the media access controller as data frames.

Claim 26 (Currently Amended) The method of claim 1, wherein the special internal communication frames are sent only within the network interface apparatus, and are not passed outside the network interface apparatus.

Claim 27 (Currently Amended) The apparatus of claim 11, wherein the network medium interface is configured to prevent passing of the special internal communication frames outside of the <u>network interface</u> apparatus.

Claim 28 (Currently Amended) The apparatus of claim 21, wherein the network medium interface is configured to prevent passing of the special internal communication frames outside of the network interface apparatus.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee.

ADDITIONAL REFERENCES

- 5. The examiner as of general interest cites the following references.
 - a. Gaspar et al, U.S. Patent No. 6,834,313.
 - b. Barghouit et al, U.S. Patent No. 6,535,521.
 - c. Bjorkgvist et al, U.S. Patent No. 6,456,629.
 - d. Vangemert, U.S. Patent No. 6,289,386.
 - e. Fischer et al, U.S. Patent No. 6,229,817.

CONTACT INFORMATION

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bharat Barot whose telephone number is (571) 272-3979. The examiner can normally be reached on Monday-Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alam, Hosain, can be reached at (571) 272-3978.

Any inquiry of general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 305-3900.

Patent Examiner Bharat Barot

Art Unit 2155

April 27, 2005

Bhorot Boot.

BHARAT BAROT

BY EYAMINER

FIG. 3

EXTRACT CONTROL INFORMATION FROM SPECIAL FRAME

IDENTIFY SPECIAL FRAME AT SECOND PART

118